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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,802	12/12/2003	Russell Smith	006242.00046	8820
22907 7	590 07/14/2006		EXAMINER	
BANNER & WITCOFF 1001 G STREET N W			RUDDOCK, ULA CORINNA	
SUITE 1100	,1 1 .		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20001			1771	
			DATE MAIL ED: 07/14/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/733,802	SMITH, RUSSELL				
Office Action Summary	Examiner	Art Unit				
	Ula C. Ruddock	1771				
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet t	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MC ate, cause the application to become a	IICATION. The reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 01	Mav 2006.					
3) Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-10 and 12-15 is/are pending in the 4a) Of the above claim(s) 14 and 15 is/are wire 5) Claim(s) is/are allowed. 6) Claim(s) 1-10,12,13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	thdrawn from consideratio	n.				
Application Papers						
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examir 11.	ccepted or b) objected to e drawing(s) be held in abeyaction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0. Paper No(s)/Mail Date	Paper No	r Summary (PTO-413) b(s)/Mail Date Informal Patent Application (PTO-152) 				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 1, 2006, has been entered.
- 2. In view of Applicant's response, the rejection in view of Takahashi et al. (US 2003/0113520) has been overcome. However, after an updated search, additional prior art has been found which renders the invention as currently claimed unpatentable for reasons herein below.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. Claims 1, 2, 7-10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Colbert (US 2004/0154264) in view of Lightner, Jr. et al. (US 2005/0126430). Colbert discloses a coated gypsum board product comprising a gypsum core and facing sheets (abstract). The board can be coated with paper on both sides thereof [0012]. In some applications, the facing sheet is a paper blended with mineral or synthetic fibers [0067]. The coating contains calcium carbonate, fillers, latex emulsions, and perlite filler [0015]. A silicone derivative is added as a hydrophobic agent [0035]. It should be noted that the Examiner is equating the calcium carbonate and perlite

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filler of Colbert to be the same as Applicant's fillers and the latex emulsion of Colbert to be the same as Applicant's binder. It is the Examiner's position that "cured in place" is a method step. It should be noted that the method of forming an article is not germane to the issue of patentability of the article itself. Therefore, this limitation has not been given patentable weight. Finally, the burden has been shifted to Applicant to show the unobvious differences between the claimed product and the prior art product. With regard to the limitation that the gypsum "partially penetrates into the fibrous facing material, because Colbert does not disclose any layer between the gypsum substrate and the paper facings, the gypsum material has to penetrate the fibrous facings to a degree in order to form a bond between the two layers.

Colbert discloses the claimed invention except for the teaching that the coating is a radiation curable coating formulation.

Lightner, Jr. et al. (US 2005/0126430) disclose a building article with bioresistant properties comprising gypsum composite materials. A biocidal agent is applied as a treatment to the fibers reinforcing the article (abstract). In one embodiment, the building article comprising a gypsum based core having two opposing surfaces and paper sheets bonded to the opposing surfaces [0009]. The biocide surface treatment can also contain a latex or other film forming material that may be dried by various types of curing methods. The curing methods include radiation curing such as UV and electronic beam curing [0026]. It should be noted that in Applicant's arguments, "high energy" is defined as UV or electronic beam radiation. It would have been obvious to one having ordinary skill in the art to have used Lightner's method of radiation

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curing on the coating of Colbert, motivated by the desire to create a coating that is quickly dried, cured, and activated.

5. Claims 3-6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Colbert (US 2004/0154264) and Lightner, Jr. et al. (US 2005/0126430), as applied to claim 1 above, and further in view of Randall et al. (US 2003/0203191). Colbert and Lightner, Jr. et al. disclose the claimed invention except for the teaching that the facing material is a non-woven mat of glass fibers or synthetic fibers or a blend of synthetic and mineral fibers. Colbert and Lightner, Jr. et al. also fail to disclose that a water-resistant additive is added to the gypsum core.

Randall et al. (US 2003/0203191) discloses a mat-faced gypsum board comprising a set gypsum core sandwiched between and faced with mats of glass fibers (abstract). The fibrous mat comprises material that is capable of forming a strong bond with the set gypsum comprising the core of the gypsum board. Examples of such material include a mineral-type material such as glass fibers and synthetic resin fibers. The mat can be woven or nonwoven in form [0038]. The core of the gypsum board also preferably includes a water-resistant additive [0023], such as siliconates, wax emulsions, or organopolysiloxane [0033] and [0035]. It would have been obvious to have used the glass and synthetic facer material of Randall et al. as the facers in the product of Colbert and Lightner, Jr. et al., motivated by the desire to create a product having decreased delamination and increased strength. It also would have been obvious to have used the water resistant additive of Randall on the gypsum core of Colbert and Lightner, Jr. et al., motivated by the desire to create a gypsum product having increased water resistance.

Rejection is maintained.

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Response to Arguments

Applicant's arguments with respect to claims 1-10, 12, and 13 have been considered but are most in view of the new ground(s) of rejection. However, it should be noted that Applicant argues in the most recent arguments that Colbert et al. do not disclose a rough surface. It should be noted that this argument is not commensurate in scope with the claims. The claims, as presently written, do not require a rough surface nor do they preclude the use of a smooth- surfaced article.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ula C. Ruddock whose telephone number is 571-272-1481. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H. Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

UCR

Ula C. Ruddock
Primary Examiner
Tech Center 1700

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